

International J. of Math. Sci. & Engg. Appls. (IJMSEA)
ISSN 0973-9424, Vol. 8 No. IV (July, 2014), pp. 281-294

APPROXIMATION THEOREMS FOR CERTAIN CLASSES OF MULTIVALUED MAPPINGS IN HILBERT SPACES

B. G. AKUCHU

Department of Mathematics
University of Nigeria, Nsukka

Abstract

We prove weak and strong convergence results for the classes of multivalued k -strictly pseudocontractive and multivalued pseudocontractive mappings introduced in [1], using the Mann and Ishikawa iteration schemes. We drop some of the strong conditions imposed on the iteration parameters and furthermore prove some of the results of [1] under a different set of conditions on the iteration parameters. Our results complement and improve on the results in [1] and the references therein.

Key Words : *Proximinal sets, Hilbert spaces, Multivalued nonexpansive-type mappings, Multivalued k -strictly pseudocontractive-type mappings, Multivalued pseudocontractive-type mappings.*

2000 AMS Subject Classification : 47H10, 54H25.

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